

(C) WPI / DERWENT

AN - 2003-674043 [64]

AP - JP20010299805 20010928

CPY - TOPP

DC - A85 L03 P73 U14 V04

FS - CPI;GMPI;EPI

IC - B32B15/08 ; C08J5/18 ; C08K3/00 ; C08L101/00 ; H05K1/16 ; H05K3/46

MC - A08-M09A A08-R01 A09-A03 A12-E07A L03-H04E1 L03-H04E3

- U14-H04A3 V04-Q04 V04-R05A V04-R07P1

PA - (TOPP) TOPPAN PRINTING CO LTD

PN - JP2003105205 A 20030409 DW200364 C08L101/00 006pp

PR - JP20010299805 20010928

XA - C2003-184409

XIC - B32B-015/08 ; C08J-005/18 ; C08K-003/00 ; C08L-101/00 ; H05K-001/16 ;
H05K-003/46

XP - N2003-538099

AB - JP2003105205 NOVELTY - The high-dielectric-constant composite material has thermosetting resin such as epoxy resin, 10-50 mass% of thermoplastic resin with respect to total resin solid content, and dielectric filler.

- DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) high-dielectric-constant film;
- (2) laminated plate with metallic foil; and
- (3) printed wiring board.

- USE - For dielectric-constant film (claimed) of printed wiring board for electronic device.

- ADVANTAGE - Possess excellent dielectric characteristics and does not produce crack even due to influence of temperature.

- DESCRIPTION OF DRAWING(S) - The figure shows the manufacturing process of a printed wiring board.

- copper foil 1,7

- insulating layer 2,3,5,6

- high dielectric constant film 4

- (Dwg.1/2)

IW - HIGH DIELECTRIC CONSTANT COMPOSITE MATERIAL PRINT WIRE BOARD
ELECTRONIC DEVICE PREDETERMINED AMOUNT THERMOSETTING RESIN
THERMOPLASTIC RESIN DIELECTRIC FILL

IKW - HIGH DIELECTRIC CONSTANT COMPOSITE MATERIAL PRINT WIRE BOARD
ELECTRONIC DEVICE PREDETERMINED AMOUNT THERMOSETTING RESIN
THERMOPLASTIC RESIN DIELECTRIC FILL

NC - 001

OPD - 2001-09-28

ORD - 2003-04-09

PAW - (TOPP) TOPPAN PRINTING CO LTD

TI - High-dielectric-constant composite material for printed wiring board in electronic device, has predetermined amount of thermosetting resin, thermoplastic resin and dielectric filler

A01 - [001] 018 ; P0464-R D01 D22 D42 F47 ; S9999 S1434 ; H0328

- [002] 018 ; P0986 P0964 H0293 F34 D01 D11 D10 D18 F26 ; H0317 ;
S9999 S1434

- [003] 018 ; P1047 P0964 P1490 H0260 F34 F61 D01 ; H0260 ; S9999
S1434 ; H0317

- [004] 018 ; P1081-R F72 D01 ; P0077 ; H0317 ; S9999 S1434

- [005] 018 ; ND01 ; ND04 ; Q9999 Q7454 Q7330 ; Q9999 Q7374-R Q7330 ;
B9999 B3214 B3203 B3190 ; K9745-R ; N9999 N7192 N7023 ; Q9999
Q7818-R ; K9552 K9483 ; K9574 K9483 ; B9999 B3849-R B3838 B3747

- [006] 018 ; A999 A135 ; A999 A237 ; B9999 B3203-R B3190